

<b>Name:</b> <b>DR K ANITHA</b>	<b>Photo</b> 			
<b>Designation:</b>	<b>ASSOCIATE PROFESSOR</b>			
<b>Qualification:</b>	<b>M.SC M.PHIL PH.D, SET Qualified</b>			
<b>Area of specialization:</b>	<b>MATHEMATICS-GRAPH THEORY</b>			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	-		<b>17Years 6Months</b>	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>4</b>		<b>14</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	<b>6</b>	<b>4</b>	-	<b>38</b>
<b>Books / Book Chapters</b>	<b>2/1</b>			
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	<b>5</b>		-	
<b>Professional Body Membership</b>	<b>ISTE &amp;IEEE</b>			
<b>Staff Achievements</b>	Published 3 Books for Engineering college students. Completed NPTEL domain Courses.			

**Educational Qualifications:**

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
PH.D	PH.D	GRAPH THEORY	2021	S.I.V.E.T COLLEGE	UNIVERSITY OF MADRAS	-	-
PG	M.PHIL	MATHEMATICS	2003	-	MADURAI KAMARAJAR UNIVERSITY	68%	FIRST CLASS
	M.SC	MATHEMATICS	2000	TBML COLLEGE	BHARATHI DASAN UNIVERSITY	71%	FIRST CLASS
UG	B.SC	MATHEMATICS	1998	STETW COLLEGE	BHARATHI DASAN UNIVERSITY	69%	FIRST CLASS

#### Academic Experience: As on 30-12-2025

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
P.S.V.P.E. College	Lecturer	4-6-2007	18-5-2011	3	11	15
Sri Sairam Engineering college	Assistant professor	1-6-2011	30-9-2022	11	3	30
	Associate Professor	1-10-2022	Till date	02	02	17
				<b>17</b>	<b>6</b>	<b>02</b>

#### Workshops/Seminars attended: 4

- Two days workshop on Linear Algebra 2020, SSN college of Engineering on 01.06.2020 to 02.06.2020
- Five days on Mathematical Sciences for CSIR-NET/SET//GATE, Sree Narayana Guru College on 11.05.2020 to 15.05.2020.
- Two days Instructional workshop on “Graph Theory and Discrete Mathematics” held at Sri Sairam Institute of Technology during 20th & 21st August 2015.

4. One day “International Workshop on parallel Computing” held at VIT, Chennai on 11th December 2014.

#### **FDP/STTP Attended:12**

1. NPTEL\_AICTE FDP Online Certification on “Effective Engineering Teaching in Practice” on Jan-Feb 2024 Funded by the Ministry of HRD, Govt. of India.
2. NPTEL\_AICTE FDP Online Certification on “Teaching and Learning in Engineering” on Jan-Feb 2024 Funded by the Ministry of HRD, Govt. of India.
3. Attended FDP for the course “Accreditation and Outcome Based Learning” conducted by NPTEL-AICTE 2024.
4. Attended FDP for the course “Effective Engineering Teaching In Practice” conducted by NPTEL-AICTE 2024.
5. Attended FDP for the course “Teaching And Learning in Engineering (TALE)” conducted by NPTEL-AICTE 2024.
6. Attended AICTE Training And Learning (ATAL) Academy online FDP on “Blended Learning and Flipped Classroom” from 18/1/2021 to 22/1/2021 at Vellore Institute of Technology.
7. Attended AICTE training and Learning Academy online FDP on “Ethics, Moral Values, Behavioral Science & Attitude” from 12/10/2020-16/10/2020 at College of Engineering, Trivandrum
8. Two days FDP on Research Methodology at Jeppiaar Institute of Technology on 01.06.2020 to 02.06.2020.
9. Five days FDP on Applications and Techniques in Mathematics, Sri Sairam Institute of Technology on 20.07.2020 to 24.07.2020.
10. Attended Six days FDTP on Algebra and Number Theory conducted by Sri Sairam Institute of Technology from 10.06.2019 to 15.06.2019.
11. Attended FDP for the course “Advanced Engineering Mathematics” conducted by NPTEL-AICTE.
12. Attended FDP for the course “Introduction to Abstract and Linear Algebra” conducted by AICTE .

#### **Conference Attended:9**

1. Strong Edge and Total colorings on Human chain and Circular human chain graphs in Recent Advancements in Applied Mathematics on 22<sup>nd</sup> November 2019 at S.I.V.E.T. College, Chennai-73.
2. Edge, Acyclic and Star Colorings on human chain graphs in National Conference on Progress in Mathematics towards Industrial Applications on 27<sup>th</sup> and 28<sup>th</sup> of September 2019 at SRM, Ramapuram, Chennai-73.
3. Some Cordial Labeling on Human Chain Graph in the International Journal on Computing Sciences on 16th &17th of November 2018 at Loyola College, Chennai.
4. Chromatic and D2 Chromatic Number for the LDG of Kite Graph in the International Conference on Mathematical Computer Engineering on 3rd &4th November of 2017 at VIT Chennai.
5. K-Graceful and Odd-Even Graceful Labeling for the Extended Duplicate Graph of Kite Graph in 10th National conference on Mathematical and Applications on 5th &6th January 2018 at SRM, University, Chennai.
6. Distance-2 chromatic number for the Splitting graph of the Mycielskian graphs in the “National Conference on Mathematical Technique and their Applications” on 27th & 28th of January 2017 at SRM University.
7. Some Graceful Labeling for the Extended Duplicate Graph of Kite Graph in the National conference on Emerging Trends in Mathematical Sciences on 22nd December 2016 at S.A. Engineering College, Chennai.

8. Distance-2 Chromatic number for Mycielskian graphs in the National Seminar on Recent Trend in Graph Theory and Combinatorics on 26th & 27th of July 2016 at Meenakshi College for Women.
9. Distance-2 irregular chromatic Number for Paths and Cycles in the International conference on mathematical Computer Engineering on 14th & 15th of December 2015 at VIT, Chennai.

### **Completed / Ongoing Projects: Nil**

### **Patent:5**

1. [202241054040 - Parallel algorithms for solving ordinary differential equation \(1\).pdf](#)
2. [202441098024 - Published - page 270 \(1\).pdf](#)
3. [A DEVICE FOR TURNING OPERATION \(2021 Aug\).pdf](#)
4. [An iot based patent \(2022-2023\).png](#)
5. [Patent-3 \(2022-2023\).pdf](#)

### **Books / Book Chapters: 3/1**

1. Published text book titled “ Matrices and Calculus” Published by Pearson.
2. Published text book titled “ Engineering Mathematics II” Published by S.Chand And Company Limited 2024, ISBN 978-93-5870-251-4
3. Published text book titled “ Mathematical Foundations of Computer Science” Published by SIPH , ISBN:978-93-5757-237-8

### **Webinar: 8**

1. One day National Webinar on Graph Theory, Govt. Arts College, Chidambaram on 12.06.2020.
2. Graph Networks and its Applications, Hindusthan College of Arts and Science on 04.06.2020 to 05.06.2020.
3. Certain Applications of Graph Theory, St.Thomas College of Arts and Science College, Koyambedu on 04.06.2020
4. Distance in graphs, KPR Institute of Engineering and Technology on 03.06.2020 to 04.06.2020
5. Research Advances in Graph Theory, Justice Basheer Ahmed Sayeed College for women on 28.05.2020
6. Latex -Learning by doing, Idhaya College for women, Kumbakonam on 15.05.2020 to 16.05.2020
7. Introduction to Latex, Loganatha Narayanasamy Government College on 28.05.2020
8. Introduction to Graphs from Algebraic Structures, G.T.N. Arts College on 22.05.2020

### **Online Courses: 38**

1. Calculus - II Jul-Oct 2025 consolidated score: 53% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
2. A Basic Course in Number Theory Jul-Oct 2025 consolidated score: 70% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
3. Graph Theory Jan-Mar 2025 consolidated score: 79% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
4. Linear Algebra Jan-Mar 2025 consolidated score: 63% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
5. Designing Learner-Centric E-learning in STEM Disciplines Aug-Sep 2024 consolidated score: 62% (NPTEL

Online Certification course funded by the Ministry of HRD, Government of India).

6. Complex Analysis Jul-Oct 2024 consolidated score: 55% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
7. Development Research Methods Aug-Oct 2024 consolidated score: 73% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
8. Design and analysis of algorithms Jan-Mar 2025 consolidated score: 62% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India).
9. Technical Communication for Engineers Jul-Aug 2024 (4 week course) consolidated score: 87% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India) Elite+Silver certificate.
10. Teaching And Learning in Engineering (TALE) Jan-Feb 2024 (4 weeks course) consolidated score: 81% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India) Elite+Silver Medal.
11. Ethics in Engineering Practice Feb- April 2024 (8 weeks course) consolidated score: 80% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India) Elite.
12. Accreditation and Outcome Based Learning Aug-Oct 2023 (8 weeks course) consolidated score: 87% (NPTEL Online Certification course funded by the Ministry of HRD, Government of India) Elite+Silver Medal.
13. Online course on Module - I - orientation towards technical education and curriculum aspects conducted by NITTTR 2023.
14. Online course on Module - III - Communication Skills Modes & Knowledge Dissemination conducted by NITTTR 2023.
15. Online course on Module - IV - Instructional Planning and Delivery conducted by NITTTR 2023.
16. Online course on Module - V - Technology Enabled Learning & Life Long Self Learning conducted by NITTTR 2023.
17. Online course on Module - VI - Student Assessment and Evaluation conducted by NITTTR 2023.
18. Online course on Module - VII - Creative Problem Solving , Innovation and Meaningful R & D conducted by NITTTR 2023.
19. Online course on Module - VIII -Institutional Management and Administrative Procedures conducted by NITTTR 2023.
20. Online course on Module - II - Professional Ethics and Sustainability conducted by NITTTR 2023.
21. Mathematics for Machine learning-Linear algebra (Coursera), Imperial College. London on 21.05.2020.
22. Mathematics for Machine learning-Multivariate Calculus (Coursera), Imperial College. London on 12.06.2020.
23. Mathematics for Machine Learning - PCA (Coursera), Imperial College. London on 22.06.2020.
24. The Sustainable Development Goals- A global, transdisciplinary vision for the future, University Of Copenhagen on 25.06.2020.
25. Spreadsheets for beginners using Google sheets, Coursera project net work on 11.05.2020.
26. The Art of Negotiation, University of California, Irvine on 21.06.2020.
27. Create your first python program, Coursera project network on 21.05.2020.
28. Python Basics, University of Michigan on 15.05.2020.

29. Data Science Math Skills, Duke University on 16.05.2020.
30. Covid-19: What you need to know, Osmosis on 04.05.2020.
31. Matrix Algebra for Engineers, The Hong Kong University of science and Technology on 25.05.2020.
32. Mathematics for Machine learning (Coursera), Imperial College. London on 22.06.2020.
33. Got an Elite certificate in NPTEL Online Certification course on “Advanced Engineering Mathematics” funded by the Ministry of HRD, Government of India.
34. Got an Elite certificate in NPTEL Online Certification course on “Introduction to Abstract and Linear Algebra” funded by the Ministry of HRD, Government of India.
35. Got a successfully certificate in NPTEL Online Certification course on “Introduction to Probability and Statistics” funded by the Ministry of HRD, Government of India.
36. Got an Elite with gold medal certificate in NPTEL Online Certification course on “Advanced Graph Theory” funded by the Ministry of HRD, Government of India.

### **Journal Publications: 20**

1. Irregular Set Coloring of Certain Graphs, Journal of Physics: Conference series, Vol.1724, 2021, 1-6.
2. Edge, Acyclic and Star colorings on Human chain graph, Journal of Physics:Conference series, Vol.1377, 2019, 1-7.
3. Lucky Edge and  $L_{(2,1)}$ -Labeling of Human chain graph, Journal of Emerging Technologies and Innovative Research, Vol.6 (2), 2019, 55-63.
4. Some Lucky labeling on Circular Human chain graph, Journal of Information and Computational Science, Vol.9(12), 2019, 636-644.
5. Magicness of Circular Human chain graph, International journal of Scientific Research in Mathematical and Statistical Sciences, Vol.5,(6),2018, 191-195.
6. Distance-2 coloring on Human chain graph and Circular Human chain graph, Journal of Applied Science and Computations, Vol.6, (1), 2019, 500-511.
7. Lucky labelings on Human chain graph, Journal of Applied Science and Computations, Vol.6, (6), 2019, 1545-1565.
8. Some cordial labeling on Human chain graph in the International Journal of Computer Science and Engineering, 7(2019)81-84.
9. New Irregular Colourings of Graphs, Journal of Applied and Computations, 6(2019),269-279.
10. Prime, Pell and Square Sum Labeling On Human Chain Graphs, SSEC Tech Journal, Vol.11, 1-5, 2019.
11. Magic labeling on Human Chain Graph in the International Journal of Engineering, Science and Mathematics 7(2018).
12. Cordial, Product cordial and Prime cordial labeling on Human Chain Graph in the Journal of Computer and Mathematical Sciences 9(11) (2018), 1786-17943.
13. Human Chain Graph in the International Journal of Engineering, Science and Mathematics 7(8)2018.
14.  $K$  –Graceful, Odd-Even Graceful, Heronian Mean and Analytic Mean Labeling for the Extended Duplicate Graph of Kite Graph in International Journal Of Engineering & Technology 7(2018) 355-359.
15. Some Graceful Labeling for the Extended Duplicate Graph of Kite Graph in Global Journal of Pure and Applied Mathematics, 13(2017)112-115.
16. Mean, Odd Mean and Even Mean labeling for the extended duplicate graph of Kite graph in “International journal

of mathematics trends and technology” volume 42, Number 1 February 2017.

17. Prime cordial and signed product cordial labeling for extended duplicate graph of kite graph in the International journal of mathematical Archive-7(11), 2016, pp: 32-37.

18. Distance-2 chromatic number for the duplicate graph of the Mycielskian graphs in the International journal of mathematics trends and technology” volume 37 Number 1-september 2016, pp : 67-72.

19. Distance-2 Chromatic Number for the Splitting graph of the Mycielskian Graph in International Journal of Pure and Applied Mathematics,113(10)2017,83-91

20. Cordial and product cordial labeling for extended duplicate graph of kite graph in the International journal of mathematics and its applications volume 4, Issue 3-B (2016), 61-68.

### **NPTEL Milestones ( <https://nptel.ac.in/nptelstars> )**

1. NPTEL Motivated Learner, Jul - Dec 2025
2. NPTEL Domain Scholar- Foundation of Mathematics, July-Dec 2025
3. NPTEL BELIEVERS, Jan-Apr 2024
4. NPTEL BELIEVERS, Jul-Dec 2024
5. NPTEL Domain Scholar, Faculty (Advanced), July-Dec 2024
6. NPTEL Discipline Star, Jul-Dec 2024
7. NPTEL ENTHUSIASTS, Jul-Dec 2024

### **NITTTR Modules Completed**

1. Successfully completed Module 3: Communication Skills, Modes and Knowledge Dissemination of National Initiative for Technical Teachers Training by AICTE.
2. Successfully completed Module 4: Instructional Planning and Delivery of National Initiative for Technical Teachers Training by AICTE.
3. Successfully completed Module 8: Institutional Management and Administrative Procedures of National Initiative for Technical Teachers Training by AICTE.
4. Successfully completed Module 1: Orientation towards technical education and curriculum aspects of National Initiative for Technical Teachers Training by AICTE in February 2022.
5. Successfully completed Module 5: Technology enabled learning and Life –Long Self Learning of National Initiative for Technical Teachers Training by AICTE in February 2023.
6. Successfully completed Module 6: Student Assessment and Evaluation of National Initiative for Technical Teachers Training by AICTE in September 2021.
7. Successfully completed Module 7: Creative problem solving, Innovation and Meaningful R&D of National Initiative for Technical Teachers Training by AICTE in February 2023.
8. Successfully completed Module 2: Professional Ethics and Sustainability of National Initiative for Technical Teachers Training by AICTE in July 2022.

